

# SAFETY DATA SHEET



Brilliant III Ultra-Fast SYBR Green QRT-PCR Master Mix, 10-pack, Part Number 600887

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

<b>Product name</b>	: Brilliant III Ultra-Fast SYBR Green QRT-PCR Master Mix, 10-pack, Part Number 600887		
<b>Part no. (chemical kit)</b>	: 600887		
<b>Part no.</b>	: <u>Brilliant III Ultra-Fast</u>	<u>600886</u>	
	: <u>SYBR Green QRT-PCR</u>		
	: <u>Master Mix</u>		
	: 2X Brilliant III SYBR®	600886-51	
	: Green QRT-PCR Master		
	: Mix		
	: RT/RNase Block	600886-52	
	: Reference Dye	600530-53	
	: 100 mM DTT	600089-53	

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

<b>Material uses</b>	: Analytical reagent.		
	: 2X Brilliant III SYBR® Green QRT-PCR	10 x (2 x 2 ml)	
	: Master Mix		
	: RT/RNase Block	10 x 0.4 ml	
	: Reference Dye	10 x (0.1 ml (100 µl 1 mM))	
	: 100 mM DTT	10 x 0.1 ml	

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</b>	: 2X Brilliant III SYBR®	Mixture
	: Green QRT-PCR Master	
	: Mix	
	: RT/RNase Block	Mixture
	: Reference Dye	Mixture
	: 100 mM DTT	Mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

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**SECTION 2: Hazards identification**

<b>Ingredients of unknown toxicity</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	RT/RNase Block	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
	Reference Dye	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	100 mM DTT	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

**2.2 Label elements**

<b>Signal word</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	No signal word. No signal word. No signal word. No signal word.
<b>Hazard statements</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Response</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Storage</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Hazardous ingredients</b>	: 100 mM DTT	Not applicable.

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## SECTION 2: Hazards identification

<b>Supplemental label elements</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	Not applicable. Not applicable. Not applicable. Safety data sheet available on request.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Special packaging requirements</b>		
<b>Tactile warning of danger</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	Not applicable. Not applicable. Not applicable. Not applicable.

### 2.3 Other hazards

<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
<b>Other hazards which do not result in classification</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	None known. None known. None known. None known.

## SECTION 3: Composition/information on ingredients

<b>3.1 Substances</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	Mixture Mixture Mixture Mixture
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Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<b>2X Brilliant III SYBR® Green QRT-PCR Master Mix</b> Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]
<b>RT/RNase Block</b> Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
<b>100 mM DTT</b> (R*,R*)-1,4-Dimercaptobutane-2,3-diol	EC: 222-468-7 CAS: 3483-12-3	≤3	Acute Tox. 4, H302 Skin Irrit. 2, H315	[1]

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### SECTION 3: Composition/information on ingredients

			Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412  <b>See Section 16 for                  the full text of the H                  statements declared                  above.</b>
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There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>Eye contact</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block  Reference Dye  100 mM DTT	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block  Reference Dye  100 mM DTT	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block  Reference Dye  100 mM DTT	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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**SECTION 4: First aid measures**

		symptoms occur.
<b>Ingestion</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	RT/RNase Block	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Reference Dye	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	100 mM DTT	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No action shall be taken involving any personal risk or without suitable training.
	RT/RNase Block	No action shall be taken involving any personal risk or without suitable training.
	Reference Dye	No action shall be taken involving any personal risk or without suitable training.
	100 mM DTT	No action shall be taken involving any personal risk or without suitable training.

**4.2 Most important symptoms and effects, both acute and delayed**

**Potential acute health effects**

<b>Eye contact</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Inhalation</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Skin contact</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Ingestion</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

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**SECTION 4: First aid measures**

<b>Eye contact</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No specific data.
	RT/RNase Block	No specific data.
	Reference Dye	No specific data.
	100 mM DTT	No specific data.
<b>Inhalation</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No specific data.
	RT/RNase Block	No specific data.
	Reference Dye	No specific data.
	100 mM DTT	No specific data.
<b>Skin contact</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No specific data.
	RT/RNase Block	No specific data.
	Reference Dye	No specific data.
	100 mM DTT	No specific data.
<b>Ingestion</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No specific data.
	RT/RNase Block	No specific data.
	Reference Dye	No specific data.
	100 mM DTT	No specific data.

**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Notes to physician</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	RT/RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Reference Dye	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	100 mM DTT	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No specific treatment.
	RT/RNase Block	No specific treatment.
	Reference Dye	No specific treatment.
	100 mM DTT	No specific treatment.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Use an extinguishing agent suitable for the surrounding fire.
	RT/RNase Block	Use an extinguishing agent suitable for the surrounding fire.
	Reference Dye	Use an extinguishing agent suitable for the surrounding fire.
	100 mM DTT	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	None known.
	RT/RNase Block	None known.
	Reference Dye	None known.
	100 mM DTT	None known.

**5.2 Special hazards arising from the substance or mixture**

## SECTION 5: Firefighting measures

<b>Hazards from the substance or mixture</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	RT/RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst.
	Reference Dye	In a fire or if heated, a pressure increase will occur and the container may burst.
	100 mM DTT	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Decomposition products may include the following materials:  carbon dioxide carbon monoxide sulfur oxides halogenated compounds metal oxide/oxides
	RT/RNase Block	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Reference Dye	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	100 mM DTT	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	RT/RNase Block	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Reference Dye	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	RT/RNase Block	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Reference Dye	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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## SECTION 5: Firefighting measures

100 mM DTT	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	RT/RNase Block	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Reference Dye	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	100 mM DTT	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	RT/RNase Block	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Reference Dye	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	100 mM DTT	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
RT/RNase Block	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Reference Dye	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
100 mM DTT	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant



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**SECTION 6: Accidental release measures**

authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**6.3 Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	RT/RNase Block	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Reference Dye	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	100 mM DTT	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

<b>Protective measures</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Put on appropriate personal protective equipment (see Section 8).
	RT/RNase Block	Put on appropriate personal protective equipment (see Section 8).
	Reference Dye	Put on appropriate personal protective equipment (see Section 8).
	100 mM DTT	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	RT/RNase Block	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Reference Dye	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	100 mM DTT	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

## SECTION 7: Handling and storage

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
RT/RNase Block	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Reference Dye	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
100 mM DTT	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

#### Recommendations

: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Industrial applications, Professional applications.
RT/RNase Block	Industrial applications, Professional applications.
Reference Dye	Industrial applications, Professional applications.
100 mM DTT	Industrial applications, Professional applications.

#### Industrial sector specific solutions

: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Not available.
RT/RNase Block	Not available.
Reference Dye	Not available.
100 mM DTT	Not available.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
2X Brilliant III SYBR® Green QRT-PCR Master Mix Glycerol	NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m <sup>3</sup> 8 hours. Form: mist
RT/RNase Block Glycerol	NAOSH (Ireland, 1/2020). OELV-8hr: 10 mg/m <sup>3</sup> 8 hours. Form: mist

#### Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

#### Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

##### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

##### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

##### Skin protection

##### Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

##### Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

##### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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## SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

- |  |   |                 |
|--|---|-----------------|
| <b>Physical state</b>                          | : 2X Brilliant III SYBR®<br>Green QRT-PCR Master<br>Mix | Liquid.         |
|  | RT/RNase Block  | Liquid.         |
|  | Reference Dye   | Liquid.         |
|  | 100 mM DTT  | Liquid.         |
| <b>Colour</b>                                  | : 2X Brilliant III SYBR®<br>Green QRT-PCR Master<br>Mix | Not available.  |
|  | RT/RNase Block  | Not available.  |
|  | Reference Dye   | Not available.  |
|  | 100 mM DTT  | Not available.  |
| <b>Odour</b>                                   | : 2X Brilliant III SYBR®<br>Green QRT-PCR Master<br>Mix | Not available.  |
|  | RT/RNase Block  | Not available.  |
|  | Reference Dye   | Not available.  |
|  | 100 mM DTT  | Not available.  |
| <b>Odour threshold</b>                         | : 2X Brilliant III SYBR®<br>Green QRT-PCR Master<br>Mix | Not available.  |
|  | RT/RNase Block  | Not available.  |
|  | Reference Dye   | Not available.  |
|  | 100 mM DTT  | Not available.  |
| <b>Melting point/freezing point</b>            | : 2X Brilliant III SYBR®<br>Green QRT-PCR Master<br>Mix | Not available.  |
|  | RT/RNase Block  | Not available.  |
|  | Reference Dye   | Not available.  |
|  | 100 mM DTT  | 0°C             |
| <b>Initial boiling point and boiling range</b> | : 2X Brilliant III SYBR®<br>Green QRT-PCR Master<br>Mix | Not available.  |
|  | RT/RNase Block  | Not available.  |
|  | Reference Dye   | Not available.  |
|  | 100 mM DTT  | 100°C (212°F)   |
| <b>Flammability (solid, gas)</b>               | : 2X Brilliant III SYBR®<br>Green QRT-PCR Master<br>Mix | Not applicable. |
|  | RT/RNase Block  | Not applicable. |
|  | Reference Dye   | Not applicable. |
|  | 100 mM DTT  | Not applicable. |

**Brilliant III Ultra-Fast SYBR Green QRT-PCR Master Mix, 10-pack, Part Number 600887**

## SECTION 9: Physical and chemical properties

**Upper/lower flammability or explosive limits** : 2X Brilliant III SYBR® Green QRT-PCR Master Mix  
 RT/RNase Block Not available.  
 Reference Dye Not available.  
 100 mM DTT Not available.

**Flash point** :

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<b>2X Brilliant III SYBR® Green QRT-PCR Master Mix</b>						
Dimethyl sulfoxide	87	188.6	ASTM D 93	87	188.6	
Edetic acid	>100	>212	DIN 51758			
<b>RT/RNase Block</b>						
Edetic acid	>100	>212	DIN 51758			
Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	>109.85	>229.7				
<b>100 mM DTT</b>						
(R*,R*)-1,4-Dimercaptobutane-2,3-diol	>110	>230				

**Auto-ignition temperature** :

Ingredient name	°C	°F	Method
<b>2X Brilliant III SYBR® Green QRT-PCR Master Mix</b>			
Dimethyl sulfoxide	300 to 302	572 to 575.6	
Glycerol	370	698	
<b>RT/RNase Block</b>			
Glycerol	370	698	
Edetic acid	>400	>752	VDI 2263

**Decomposition temperature** : 2X Brilliant III SYBR® Green QRT-PCR Master Mix  
 RT/RNase Block Not available.  
 Reference Dye Not available.  
 100 mM DTT Not available.

**pH** : 2X Brilliant III SYBR® Green QRT-PCR Master Mix  
 RT/RNase Block 8  
 Reference Dye 8  
 100 mM DTT Not available.

**Viscosity** : 2X Brilliant III SYBR® Green QRT-PCR Master Mix  
 RT/RNase Block Not available.  
 Reference Dye Not available.  
 100 mM DTT Not available.

**Solubility(ies)** :

**Brilliant III Ultra-Fast SYBR Green QRT-PCR Master Mix, 10-pack, Part Number 600887**

**SECTION 9: Physical and chemical properties**

2X Brilliant III SYBR® Green QRT-PCR Master Mix	Easily soluble in the following materials: cold water and hot water.
RT/RNase Block	Easily soluble in the following materials: cold water and hot water.
Reference Dye	Easily soluble in the following materials: cold water and hot water.
100 mM DTT	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT
	Not applicable.
	Not applicable.
	Not applicable.

**Vapour pressure**

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>2X Brilliant III SYBR® Green QRT-PCR Master Mix</b>						
water	23.8	3.2		92.258	12.3	
Sorbitan monolaurate, ethoxylated	<1	<0.13				
<b>RT/RNase Block</b>						
water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
<b>Reference Dye</b>						
water	23.8	3.2		92.258	12.3	
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
<b>100 mM DTT</b>						
water	23.8	3.2		92.258	12.3	

**Evaporation rate**

2X Brilliant III SYBR® Green QRT-PCR Master Mix	Not available.
RT/RNase Block	Not available.
Reference Dye	Not available.
100 mM DTT	Not available.

**Relative density**

2X Brilliant III SYBR® Green QRT-PCR Master Mix	Not available.
RT/RNase Block	Not available.
Reference Dye	Not available.
100 mM DTT	Not available.

**Vapour density**

2X Brilliant III SYBR® Green QRT-PCR Master Mix	Not available.
RT/RNase Block	Not available.
Reference Dye	Not available.
100 mM DTT	Not available.

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**SECTION 9: Physical and chemical properties**

<b>Explosive properties</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Not available.
	RT/RNase Block	Not available.
	Reference Dye	Not available.
	100 mM DTT	Not available.
<b>Oxidising properties</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Not available.
	RT/RNase Block	Not available.
	Reference Dye	Not available.
	100 mM DTT	Not available.
<b>Particle characteristics</b>		
<b>Median particle size</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Not applicable.
	RT/RNase Block	Not applicable.
	Reference Dye	Not applicable.
	100 mM DTT	Not applicable.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	RT/RNase Block	No specific test data related to reactivity available for this product or its ingredients.
	Reference Dye	No specific test data related to reactivity available for this product or its ingredients.
	100 mM DTT	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	The product is stable.
	RT/RNase Block	The product is stable.
	Reference Dye	The product is stable.
	100 mM DTT	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	RT/RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
	Reference Dye	Under normal conditions of storage and use, hazardous reactions will not occur.
	100 mM DTT	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No specific data.
	RT/RNase Block	No specific data.
	Reference Dye	No specific data.
	100 mM DTT	No specific data.

Brilliant III Ultra-Fast SYBR Green QRT-PCR Master Mix, 10-pack, Part Number 600887

## SECTION 10: Stability and reactivity

<b>10.5 Incompatible materials</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix RT/RNase Block Reference Dye 100 mM DTT	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not available.

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>100 mM DTT</b> 100 mM DTT (R*,R*)-1,4-Dimercaptobutane-2,3-diol	33333.3 500	N/A N/A	N/A N/A	N/A N/A	N/A N/A

#### Irritation/Corrosion

**Conclusion/Summary** : Not available.

#### Sensitiser

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
<b>100 mM DTT</b> (R*,R*)-1,4-Dimercaptobutane-2,3-diol	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.



## SECTION 11: Toxicological information

<b>Information on likely routes of exposure</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
	RT/RNase Block	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Reference Dye	Not available.
	100 mM DTT	Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

<b>Inhalation</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Ingestion</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Skin contact</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Eye contact</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No known significant effects or critical hazards.
	RT/RNase Block	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No specific data.
	RT/RNase Block	No specific data.
	Reference Dye	No specific data.
	100 mM DTT	No specific data.
<b>Ingestion</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No specific data.
	RT/RNase Block	No specific data.
	Reference Dye	No specific data.
	100 mM DTT	No specific data.
<b>Skin contact</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No specific data.
	RT/RNase Block	No specific data.
	Reference Dye	No specific data.
	100 mM DTT	No specific data.
<b>Eye contact</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	No specific data.
	RT/RNase Block	No specific data.
	Reference Dye	No specific data.
	100 mM DTT	No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Brilliant III Ultra-Fast SYBR Green QRT-PCR Master Mix, 10-pack, Part Number 600887**

## SECTION 11: Toxicological information

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

**General** : 2X Brilliant III SYBR® Green QRT-PCR Master Mix No known significant effects or critical hazards.

RT/RNase Block No known significant effects or critical hazards.

Reference Dye No known significant effects or critical hazards.

100 mM DTT No known significant effects or critical hazards.

**Carcinogenicity** : 2X Brilliant III SYBR® Green QRT-PCR Master Mix No known significant effects or critical hazards.

RT/RNase Block No known significant effects or critical hazards.

Reference Dye No known significant effects or critical hazards.

100 mM DTT No known significant effects or critical hazards.

**Mutagenicity** : 2X Brilliant III SYBR® Green QRT-PCR Master Mix No known significant effects or critical hazards.

RT/RNase Block No known significant effects or critical hazards.

Reference Dye No known significant effects or critical hazards.

100 mM DTT No known significant effects or critical hazards.

**Reproductive toxicity** : 2X Brilliant III SYBR® Green QRT-PCR Master Mix No known significant effects or critical hazards.

RT/RNase Block No known significant effects or critical hazards.

Reference Dye No known significant effects or critical hazards.

100 mM DTT No known significant effects or critical hazards.

**Other information** : 2X Brilliant III SYBR® Green QRT-PCR Master Mix Not available.

RT/RNase Block Not available.

Reference Dye Not available.

100 mM DTT Adverse symptoms may include the following: May cause sensitisation by skin contact.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
100 mM DTT (R*,R*) -1,4-Dimercaptobutane-2,3-diol	Acute LC50 27000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

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## SECTION 12: Ecological information

### 12.4 Mobility in soil

Soil/water partition coefficient ( $K_{oc}$ ) : Not available.

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

### Additional information

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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## SECTION 14: Transport information

14.7 Transport in bulk according to IMO instruments : Not available.

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorisation](#)

[Annex XIV](#)

None of the components are listed.

[Substances of very high concern](#)

None of the components are listed.

[Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles](#)

<b>Label</b>	: 2X Brilliant III SYBR® Green QRT-PCR Master Mix	Not applicable.
	RT/RNase Block	Not applicable.
	Reference Dye	Not applicable.
	100 mM DTT	Not applicable.

[Other EU regulations](#)

**Industrial emissions (integrated pollution prevention and control) - Air** : Listed

[Ozone depleting substances \(1005/2009/EU\)](#)

Not listed.

[Prior Informed Consent \(PIC\) \(649/2012/EU\)](#)

Not listed.

[Persistent Organic Pollutants](#)

Not listed.

[Seveso Directive](#)

This product is not controlled under the Seveso Directive.

[International regulations](#)

[Chemical Weapon Convention List Schedules I, II & III Chemicals](#)

Not listed.

[Montreal Protocol](#)

Not listed.

[Stockholm Convention on Persistent Organic Pollutants](#)

Not listed.

[Rotterdam Convention on Prior Informed Consent \(PIC\)](#)

Not listed.

[UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

[Inventory list](#)

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: Not determined.

**Brilliant III Ultra-Fast SYBR Green QRT-PCR Master Mix, 10-pack, Part Number 600887**

## SECTION 15: Regulatory information

<b>Japan</b>	: <b>Japan inventory (CSCL):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: Not determined.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

<b>Abbreviations and acronyms</b>	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
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### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

### Full text of abbreviated H statements

<b>100 mM DTT</b> H302 H315 H319 H335 H412	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
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### Full text of classifications [CLP/GHS]

<b>100 mM DTT</b> Acute Tox. 4 Aquatic Chronic 3 Eye Irrit. 2 Skin Irrit. 2 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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